

09/402, 208

(FILE 'HOME' ENTERED AT 16:49:17 ON 18 APR 2003)

FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 16:49:28 ON 18 APR 2003

L1 5794 S (FETUIN?)
L2 8206 S (FETAL) (2A) (PROTEIN?)
L3 85 S L1 AND (CO OR COBALT)
L4 5 S L3 AND (ZN OR ZINC)
L5 5 DUP REM L4 (0 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 16:52:05 ON 18 APR 2003

FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 16:53:33 ON 18 APR 2003

L6 116 S L1 AND METAL?
L7 25 S L1 (20A) METAL?
L8 18 DUP REM L7 (7 DUPLICATES REMOVED)
L9 1 S L7 AND (BARIUM OR BA)
L10 3 S L7 AND (ZINC OR ZN)
L11 3 DUP REM L10 (0 DUPLICATES REMOVED)

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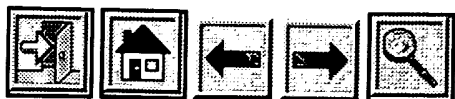
L20 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 3
 AN 1992:3964 CAPLUS
 DN 116:3964
 TI **Fetuin** and alpha-2HS glycoprotein induce alkaline phosphatase in
 epiphyseal growth plate chondrocytes
 AU Ishikawa, Yoshinori; Wu, Licia N. Y.; Valhmu, Wilmot B.; Wuthier, Roy E.
 CS Dep. Chem., Univ. South Carolina, Columbia, SC, 29208, USA
 SO Journal of Cellular Physiology (1991), 149(2), 222-34
 CODEN: JCLLAX; ISSN: 0021-9541
 DT Journal
 LA English
 AB A previously described chondrocyte alk. phosphatase induction factor
 (CAP-IF) for chicken epiphyseal growth plate chondrocytes has been
 purified to SDS-PAGE homogeneity from fetal bovine serum by ammonium
 sulfate pptn. and by dye-ligand affinity (Affi-Gel Blue and Reactive
 Green-19 agarose) and hydroxyapatite column chromatogs. As detd. by
 immunopptn. of [35S]methionine-labeled cellular proteins after 3-day
 treatment, this highly purified CAP-IF increases the level of AP and
 certain other membrane proteins 2- to 3-fold over control values. The
 pure protein of apparent 64.5 kDa mol. wt. has been identified as
fetuin by N-terminal amino acid sequencing. This was confirmed by
 the finding that high alk. phosphatase (AP)-inducing activity is present
 in **fetuin** prepd. by the Spiro method. However, **fetuins**
 prepd. by the Pedersen or Deutsch procedures are inactive. At least half
 of the CAP-IF activity of **fetuin** was irreversibly destroyed by
 treatment with **EDTA**, and addn. of **Zn2+** did not
 reactivate the **EDTA**-treated **fetuin**. Ascorbate
 synergistically enhanced the effect of **fetuin** and chondrocyte AP
 activity by over 8-fold during 3-day exposure. Because of the very high
 homol. between **fetuin** and the A-chain of .alpha.2-HS
 glycoprotein, it was also tested and found that .alpha.2HS glycoproteins
 from human serum and bovine bone are both strong AP inducers. These
 findings suggest that the AP-inducing activity resides in a labile,
 cystatin/**Zn2+**-binding domain common to these related serum
 glycoproteins. These proteins appear to play a role in enhancing AP
 expression in normal growth plate cartilage differentiation.

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L20 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 4
 AN 1984:170277 CAPLUS
 DN 100:170277
 TI Identification of "embryonin" as bovine .alpha.2-macroglobulin
 AU Feldman, Steven R.; Gonias, Steven L.; Ney, Kathryn A.; Pratt, Charlotte
 W.; Pizzo, Salvatore V.
 CS Med. Cent., Duke Univ., Durham, NC, 27710, USA
 SO Journal of Biological Chemistry (1984), 259(7), 4458-62
 CODEN: JBCHA3; ISSN: 0021-9258
 DT Journal
 LA English
 AB Pedersen **fetuin** contains a contaminant, embryonin, that exhibits
 immuno cross-reactivity with human .alpha.2-macroglobulin (.alpha.2Mh).
 This protein coelutes with .alpha.2Mh in gel filtration chromatog. and can
 be purified to homogeneity by **Zn²⁺ chelate** chromatog.
 By SDS-polyacrylamide gel electrophoresis (SDS-PAGE), this contaminant
 exhibited similar subunit size, protease-induced cleavage fragments, and
 heat fragmentation as .alpha.2Mh. [125I]trypsin and [125I]chymotrypsin
 each bound at a ratio of 0.9 mol/mol to this **fetuin**-derived
 native .alpha.2M (.alpha.2Mf) and at a ratio of <0.2 mol/mol to
 methylamine-treated .alpha.2Mf. As detd. by SDS-PAGE, 1:1 molar ratio of
 protease/.alpha.2Mf cleaved each .alpha.2Mf subunit to fragments of
 .apprx.72,000 daltons. At a 0.2:1 molar ratio of trypsin/.alpha.2Mf-
 methylamine, every .alpha.2Mf-methylamine subunit was cleaved to
 polypeptide chains of .apprx.72,000 and 110,000 daltons. In native PAGE,
 .alpha.2Mf and .alpha.2Mf-methylamine migrated with the same mobility;
 after reaction with trypsin, their mobilities increased similarly.
 [125I].alpha.2Mf cleared from the circulation of mice with a half-time
 (t_{1/2}) of 30 min. The trypsin or methylamine deriv. of [125I].alpha.2Mf
 cleared with t_{1/2} of <5 min and clearance was competable when the ligand
 was coinjected with a large molar excess of unlabeled .alpha.2Mh-
 methylamine. .alpha.2Mf, 0.3 nM, treated with trypsin or methylamine,
 inhibited 50% of the binding of 0.1 nM [125I].alpha.2Mh-methylamine to
 specific receptors on mouse peritoneal macrophages in vitro. Native
 .alpha.2Mf did not inhibit significantly the binding of the ligand at this
 concn. Bovine .alpha.2M was purified from plasma by Ni²⁺ **chelate**
 chromatog. By SDS-PAGE, amino acid anal., and CNBr peptide mapping, it
 was indistinguishable from .alpha.2M purified from **fetuin**.
 Thus, embryonin is bovine .alpha.2M.

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L5 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1981:65547 BIOSIS
DN BR21:543
TI PARTIAL PURIFICATION AND PROPERTIES OF A CELL SURFACE N ACETYL GLUCOSAMINE
BINDING PROTEIN FROM CALF LYMPHOCYTES.
AU WOLFMAN A; BELL J E
CS UNIV. ROCHESTER MED. CENT., ROCHESTER, N.Y. 14642.
SO 65TH ANNUAL MEETING OF THE FEDERATION OF AMERICAN SOCIETIES FOR
EXPERIMENTAL BIOLOGY, ATLANTA, GA., USA, APRIL 12-17, 1981. FED PROC.
(1981) 40 (3 PART 2), 813.
CODEN: FEPRA7. ISSN: 0014-9446.
DT Conference
FS BR; OLD
LA English



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Biotechnology and Chemical Library	QH301 .F4	v.12 1953 c.1	Available
Biotechnology and Chemical Library	QH301 .F4	v.13 1954 c.1	Available

L4 ANSWER 3 OF 3 MEDLINE
AN 62107439 MEDLINE
DN 62107439
TI **Studies on fetuin, a glycoprotein of fetal serum. II. Nature of the carbohydrate units.**
AU SPIRO R G
SO J Biol Chem, (1962 Feb) 237 382-8.
DT Journal
LA English
FS OLDMEDLINE
EM 196212
ED Entered STN: 19990716
Last Updated on STN: 19990716
ST carbohydrates - blood; fetus - blood; glycoproteins - blood
RN 66455-27-4 (GLYCOPROTEINS)

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L3 85 S L1 AND (CO OR COBALT)
L4 5 S L3 AND (ZN OR ZINC)
L5 5 DUP REM L4 (0 DUPLICATES REMOVED)

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L6 116 S L1 AND METAL?
L7 25 S L1 (20A) METAL?
L8 18 DUP REM L7 (7 DUPLICATES REMOVED)
L9 1 S L7 AND (BARIUM OR BA)
L10 3 S L7 AND (ZINC OR ZN)
L11 3 DUP REM L10 (0 DUPLICATES REMOVED)
L12 0 S (METAL?) (3A) (DEPENDEN?) AND (L1 OR L2)
L13 183 S L2 AND (ZINC OR ZN)
L14 0 S L13 AND (CHELAT? OR EDTA)
L15 46 S L2 AND (CHELAT? OR EDTA)
L16 18 DUP REM L15 (28 DUPLICATES REMOVED)
L17 0 S L16 AND (ZINC OR ZN?)
L18 168 S L1 AND (CHELAT? OR EDTA OR ETHYLENEDIAMIN?)
L19 28 S L18 AND (ZINC OR ZN?)
L20 15 DUP REM L19 (13 DUPLICATES REMOVED)